

BUGYI, B.

The great developer of the illustration of medical books:
Dr. Geza Arpad Gerster. Orv.hetil. 100 no.38:1382-1383
S '59.

(BIOGRAPHIES)

(MEDICAL ILLUSTRATION)

BUGYI, B.

▲lexander's "plastic" relief-like x-ray pictures. Orv.hetil.
100 no.40:1455-1456 0 '59.
(RADIOGRAPHY hist.)

BUGYI, Balazs

The radiological morphology of the frontal sinus. Cesk.rentg. 14
no.5:309-313 0 '60.

1. Mestska zavodni poliklinika Ganz-Mavag, Budapest, Madarsko,
prednosta dr. Janos Regos.
(FRONTAL SINUS radiography)

BUGYI, B.; DOBROVA, L.; REGOS, J. (Budapest)

Medical problems connected with the protection against x-rays
in industrial radiology. Polski przegl. radiol. 26 no.2:169-174
'62.

(RADIATION PROTECTION)

(INDUSTRIAL MEDICINE)

BUGYI, B.

Functional studies of the cervical spine. Pol. przegl. radiol. 26
no.4:271-274 '62.

(CERVICAL VERTEBRAE)

BUGYI, Balazs, dr., az orvostudományok kandidátusa

In the commemoration of Virgil Klatt, the inventor of photoluminescence.
Term tud kozl 6 no.12:576 D '62.

REGOS, Janos, dr.; BUGYI, Balazs, dr.

Experiences with film dosimetric investigations in determining the radiation strain of the Ganz-Mavag X-ray material testers. Munkavedelem 6 no.1/3:21-23 '60.

1. Fovarosi Tanacs Ganz-Mavag Uzemi Rendelointezete.
2. "Munkavedelem" szerkeszto bizottsagi tagja. (for Regos).

BUCYI, Balazs, dr. phil., dr.med., az orvostudományok kandidátusa

Technical and chemical problems of the mechanical development
of films serving X-ray diagnosis. Képforg. 8 no.5:159-3 of 1962.
0 :62.

BUGYI, Balazs, dr.

Examination of the spine affected by occupational diseases.
Munkavedelem 6 no.1/3:43-46 '60.

1. Fovarosi Tanacs Ganz-Mavag Uzemi Rendelointezete.

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BUGYI, Balazs, dr.

Scientific conference of factory physicians. Munkavédelem
6 no.1/3:51-53 '60.

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EUGYI, Balazs, dr.

Evaluation of the condition of the bone structure of young workers
on the basis of complex screening tests. Munkavedelem 9 no. 10/12:
37-39 '63.

1. Ganz-Mavag Polyclinic of the Budapest Municipal Council, Budapest.

BUGYI, B.

On automatic developing equipment. Gask. rentgen. 17 no.2:140-142
Mr '63.

1. Poliklinika Ganz-Mavag, Budapest, reditel dr. J. Regos.
(RADIOGRAPHY) (EQUIPMENT AND SUPPLIES)

BUGYI, Balazs, dr.,med.,dr.,phil.

Some questions relating to the applicability of the theory of information in roentgenology. Kep hang 7 no.1:17-19 F '61.

1. Fovarosi Tanacs Ganz-Mavag Rendelointezete (igazgato: Dr. Janos Regos), Budapest.

BUGYI, Balazs, dr. med., dr. phil.

The first Hungarian X-ray laboratory. Elovilag 5 no.1:
38-44 Ja-Mr '60.

...BUGYI, B.

L.R.Villermé: the founder of modern industrial health. Orv.hetil.
104 no.50:2480-2481 29 D '63.

BUGYI, B.

Anniversary of an interesting biophysical error: the mysterious
N-rays. Orv.hetil. 105 no.2:87-88 12 Ja'64.

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BUGYI, Balazs, dr.

The Pozsony pioneers of roentgenology. Elovilag 9 no.2:
50-52 Mr-Apr '64.

0102, 504 311 111.

$$R_{\text{eff}} = 1.0 \times 10^{-4} \text{ cm}^2 \text{ s}^{-1} \quad \text{and} \quad R_{\text{eff}} = 1.0 \times 10^{-4} \text{ cm}^2 \text{ s}^{-1}$$

BUGYI, B.

The 1st cases of radiation injury in Hungary. Orv. hetil. 106
no.10:468-469 7 Mr '65.

Methods

HUNGARY

BUGYI, Balazs, Dr; Capital City Council Ganz-MAVAG Factory, Ambulant Service
(director-chief physician: REGOS, Janos, Dr) (Fovarosi Tanacs Ganz-MAVAG
Uzemi Rendelointezet), Budapest.

"Demonstration and Localization of Foreign Bodies Using the Ultrasonic-Echo
Method. (Preliminary Communication)."

Budapest, Magyar Traumatologia, Orthopaedia es Helyreallito Sebeszet,
Vol IX, No 3, Jul 66, pages 200-204.

Abstract: [Author's English summary modified] In the experience of the
author, the ultrasonic echo procedure, which is used regularly in industrial
material analysis, can be used reliably for the determination and localiza-
tion of non-metallic and non-magnetizable foreign bodies which show
practically no X-ray absorption. It can substitute other methods or other
methods can be supplemented by this procedure when necessary. 4 Eastern
European, 2 Western references.

1/1

BUGYI, Gyorgy, dr.

Simplified graphic method of calculation for continuous instillation.
Orv. hetil. 96 no.38:1063-1064 18 Sept 55.

1. A Csornai Janos Tanacs Korhazanak (igazgato: Keviczky Pal dr.)
Csecemo es Gyermekosztalyanak (foorvos: Bugyi Gyorgy dr.)
kozlemenye.

(INFUSIONS, PARENTERAL,
graphic calculations in)

BUGYI, Gyorgy, dr.

Epidemic caused by 026 B6 phage of *Escherichia coli* dyspepsiae.
Gyermekgyógyászat 7 no.5-6:184-186 May-June 56.

1. Csornai Járasi Tanács Korháza (igaz.-főorvos: Keviczky Pál dr.)
Csecsemő-és Gyermekoszt. (főorvos: Bugyi György dr.)
(*ESCHERICHIA COLI*, infect.
dyspepsia, epidemic caused by 026 B6 phage in inf. (Hun))
(INFANT NUTRITION DISORDERS
dyspepsia epidemic caused by 026 B6 phage of *E. coli*
(Hun))

BUGYI, Gyorgy, dr.

Two cured cases of necrosis progressiva subcutanea neonatarum.
Borogygy. vener. szemle 10 no.3:134-136 May 56.

1. A Csornajarasi Tanacs Korhaza (igazgato foorvos: Keviczky, Pal,
dr.) csecsemo-es gyermekosztalyanak (foorvos: Bugyi, Gyorgy, dr.)
kozlemeny.

(NECROSIS

subcutaneous fat, progressive, cured cases (Hun))

(INFANT, NEWBORN, dis.

necrosis, progressive subcutaneous fat, cured cases
(Hun))

(FATTY TISSUE, dis.

necrosis, progressive subcutaneous fat, cured cases (Hun))

BUGYI, I.; ZSOLDOS, F.

Removal of the adrenal medulla; suprarenal medullectomy according to Durante. Orv. hetil. 94 no.16:429-432 19 Apr 1953. (CIML 24:4)

1. Csongrad County Council Hospital (Director -- Surgical Head Physician -- Dr. Istvan Bugyi, Candidate Medical Sciences), Szentes.

BUGYI, I.; ZSOLDOS, F.

The surgical treatment of cardiospasm. Orv. hetil. 94 no.21:573-576
24 May 1953. (CIVIL 25:1)

1. Doctors. 2. Surgery Department, Csongrad County Council Hospital,
Szentes.

BUGYI, Istvan, dr.,; HORVATH, Mihaly, dr.,; ZSOLDOS, Ferenc.,dr.

Gastric operation Bilioth I; 371 cases of gastroduodenostomy.
Orv. hetil. 96 no.32:869-877 7 Aug 55.

1. A Szentesi Megyei Korhaz Sebészeti Osztalyanak (igazgato:
Szekely Alfred dr.) kozlemenye.
(STOMACH,
surgery, Bilioth I operation)

BUGYI, Istvan. Dr.

Medical orthography. Orv. hetil. 100 no.1:5-14 4 Jan 59.

1. A Szentesi Megyei Korhaz kozlemenye. Az Orvosi Hetilap 100. evfolyama
szamara, a szerkesztoseg felkeresere irt tanulmany.

(NOMENCLATURE

Hungary med. orthography (Hun))

BUGYI, Istvan, dr.

Cleft palate. Orv. hetil. 105 no.6:241-244 9 F'64.

1. Szentes Megyei Korhaz, Sebeszeti Osztaly.

*

BUGYI, Istvan, dr.

Fracture healing in childhood. Orv. hetil. 106 no.35:1633-1639
29 Ag '65.

1. Megyei Kórház, Szentes, Sebészeti Osztály (főorvos: Bugyi,
Istvan, dr.).

BUGYI, Jozsef _____

Supplement to our article "Crystal-controlled PVC welding device."
Radiotechnika 12 no.10:345 0 '62.

1. Osztaalyvezeto, Posta Zavarvizsgalo Csoportja.

BUHAC, Ivo, dr.

Weber-Christian syndrome. Liječn. vjesn. 83 no.4:357-363 '61.

1. Iz Internog odjela Opće bolnice "Dr O.Novosel" Medicinskog
fakulteta u Zagrebu.
(PANNICULITIS)

GLUSKO, B.V.; BUHAR, I.E.

Perfecting the soil labor system. Analele agric zooteh 17
no.6:37-41 N-D'63.

BUHAY, Arkadiy Syl'vestrovych

[Concise explanatory mathematical dictionary] Korotkii
tlumachnyi matematichnyi slovnyk, Kyiv, Radians'ka shkola,
1964. 427 p. (MIRA 18:11)

UNGUREANU, N.; SIMIONESCU, T.; VALULESCU, Gr.; SUCIU, D.; BARBU, N.;
ZAHIU, A.; BUHESCU, R.; BUSNITA, M.

Aspects of the obtention of polycarbonates by interfacial
polycondensation. Rev chimie Min petr 13 no.7:405-411
Jl '62.

BUHL, Aleksander

SURNAME, Given Names

Country: Poland

(3)

Academic Degrees: [not given]

Affiliation: Faculty of Zoohygiene (Katedra Zochigieny), College of Agriculture (Wyzsza Szkola Rolnicza), Krakow; Director: Prof. Wladyslaw BIELANSKI, Dr.

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 7, July 1961, pp 422-427.

Data: "Infectious Viral Abortions in Mares in Seven State Studs."

Authors:

GANCWICZ, Michal

BUHL, Aleksander

GPO 981643

BUHL, Franciszek; GREGOROWICZ, Zbigniew

Determination of traces of cupric ions with variamine blue.
Chem anal 8 no.4:511-515 '63.

1. Department of Sanitary Chemistry, Polytechnic College,
Gliwice, and Department of Analytical Chemistry, Pedagogical
School, Katowice.

Buhulac, H.

Some current aspects of television. n.499. ELECTROTEHNICA. (Asociata Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Energiei Electrice si Industrii Electrotehnice) Bucuresti. Vol. 3, no. 11, Nov. 1955

So. East European Accessions List Vol. 5, no 9 September, 1956

BUHUS, Pavel, ing. (Bucuresti)

Economical functioning systems for parallelly working three winding transformers. Energetica Rum 10 no.8:319-325 Ag '62.

1. Sef de lucrari la Institutul politehnic din Bucuresti.

DINCULESCU, C.; ARIE, A.; BUHUS, P.; CRISTESCU, D.

The laboratory of power plants, stations and electric systems
of the Polytechnic Institute of Bucharest. Bul Inst Polyteh 25
no.3:33-51 My-Je '63.

1. Catedra de Centrale Electrice, Institutul Politehnic Bucuresti.

LAZAR, H., conf. ing.; BUHUS, P., ing.

Calculation method for determining neutral drift in
networks equipped with P. coil. Energetica Rum 11 no.6:255-261
Je '63.

IVANOF, A.; BERGNER, E.; BUIA, C.

Modifications of the pharyngeal and intestinal aerobe microbial flora following antibiotic treatment of children; consecutive staphylococcal otic complications. Microbiologia (Bucur) 6 no.1:59-60 Ja-F '61.

1. Institutul de igiena, Cluj.

*

BADENSKI, Gh., prof.; BERGNER, Eva; BUIA, Claudia; IVANOF, A.

Experimental staphylococcal infection of the white mouse by the ocular way. Microbiologia (Bucur) 6 no.1:62-63 Ja-F '61.

BUJANGV, A., inzh.

The peaceful atom. Nauka i tekhn mladezh no.7:29-30 1957.

BUICAN, D.; URTILA, St.; IONESCU, Al.; LUPAS, V.

Contributions to the study of radicular nutrition of fall grain and double hybrid maize in respect to the hydric regime and applied fertilizers. Studii cerc biol veget 13 no.1:75-86 '61.
(KEAI 10:9)

1. Comunicare prezentata de N. Salageanu, membru corespondent al Academiei RPR.

(Grain)	(Corn(Maize))	(Hybridization, Vegetable)
(Roots)	(Hydrogen)	(Fertilizers and manures)

BUICAN, D. (Bucuresti)

Heterosis and the resistance to cold weather of the double
hybrids of corn, radioisotopically determined. Natura Biologie
16 no.2:80-82 Mr-Apr '64.

BUTCAN, D.; RACOTA, R.; IONESCU, AL.

Contributions to the study of the resistance of corn
during drought. Pt.1. Studii cerc biol veget 15
no.1:113-129 '63.

BUICAN, D.; RACOTA, R.; IONESCU, Al.

Contributions to the study of corn resistance during drought periods. Pt 2. Studii cerc biol veget 15 no.2:271-281 '63.

1. Comunicare prezentata de academician N.Salgeanu.

BUICAN, D., lector univ., candidat in stiinte biologice

Physics and life. St si Teh Buc 16 no.10:16-17 0 :64.

DOBRE, Nelu I. (Merei, Buzau); MUNTEANU, I.; BUICLIU, Sh.;
CASANDROIU, T. (Ploiesti); STRATESCU, Ion; IONESCU-Tiu,
C.; TOMESCU, Ion (Bucuresti); MIRZAN, D., prof. (Bujoreni,
Vilcea)

Exercises and problems proposed for grades 5-8. Gas mat
B 15 no. 5:227-230 May '64.

ZAMFIRESCU, T. (Bucuresti); ATANASIU, Ionel (Focsani); VIOREL,
Voda Gh. (Bucuresti); SIMIONESCU, Gh. D.; VASILESCU, C.
(Ploiesti); BANICA, Octavian (Cimpulung-Muscel); BUICLIU,
G.; DORIN, Alexandru (Bucuresti); IOAN, Filip, prof.
(Sacadat)

Solved problems. Gas mat B 15 no. 5:209-218 May '64.

BUICLIU, G.

The theorem of D. Pompeiu. p. 175

GAZETA MATEMATICA SI FIZICA. SERIA A.

Vol. 8, no. 4, Apr. 1956

Rumania

Source: EAST EUROPEAN LISTS Vol. 5, no. 10 Oct. 1956

BUICLIU, Gh.

Propounded problems; 5179. Gaz mat B 13 no.3:171 Mr '62.

KUZ'MINA, T.A.; BELGAKOVA, A.A.; ZVORYKIN, V.I.; BOICHAGIN, V.N.

Determining the parameters of shock waves of charge explosions
from the detonating card under various conditions. Neftegaz.
geol. i geofiz. no.4:47-51 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh
metodov razvedki i Moskovskoye vyssheye tekhnicheskoye uchilishche
im. Baumana.

BUIMISTRU, L.

Practical methods for improving the electric-power factor. p. 538.

REVISTA CAILOR FERATE. (Caile Ferate Romine) Bucuresti, Rumania.
Vol. 6, no. 12, Dec. 1958.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 7, July 1959

Uncl.

Deistviia aviatcii

BURDOV, M. S.

Deistviia aviatsii v period boia SK v glubine obozromy. (Voen-naia mysl', 1941, no. 5, p. 23-34, diagsr.)

Title tr.: Air activity during the combat of an infantry corps in the rear defense area.

Ud. 782 1941

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

BUDHOVICI, D.; BAIA, E.; TOTIRESCU, G.

Variation in the apparent volume of young brown coal in a state of humidity. p. 299.

Academia Republicii Populare Romine. Institutul de Energetica. STUDII SI CERCETARI DE ENERGETICA. Bucuresti, Rumania. Vol. 8, no. 2, 1958.

Monthly List of East European Accessions (SEAI) IC, Vol. 8, no. 7 July, 1959.

Uncl.

Bulmovici, D.

BULMOVICI, D.

BULMOVICI, L. Humidity of coal at 100° C.; isotherms of desorption of water vapor
by lignite at a temperature of 100° C. p. 77.

Vol. 5, No. 1/2, Jan./June 1955.
STUDII SI CERCETARI DE ENERGETICA.
TEHNICITATE
Bucuresti, Romania

So: East European Accession, Vol. 5, no. 5, May 1956

Buimovici, D.; Eiclesanu, D.

Crushability of Rumanian coal. In Russian, p. 291.

REVUE D'ELECTROTECHNIQUE ET D'ENERGETIQUE. JOURNAL OF ELECTROTECHNICS AND
ENERGETICS. (Academia Republicii Populare Romina. Institutul de Energetica)
Bucuresti, Rumania Vol. 2, no. 2, 1957

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959

Uncl.

Buimovici, D.

Burning lignite on the grate. In German, p. 301.

REVUE D'ELECTROTECHNIQUE ET D'ENERGETIQUE. JOURNAL OF ELECTRICAL ENGINEERING AND
ENERGETICS. (Academia Republicii Populare Romine. Institutul de Energetica)
Bucuresti, Rumania Vol. 2, no. 2, 1957

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959

Uncl.

~~BUTOVICI, D.~~

Combustion of Rumanian lignities in rest and in agitated beds.

P. 7, (Academia, Republicii Populare Romine. Institutul de Energetica. Studii Si Ceretari de Energetica. Vol. 7, no. 1, 1957, Bucuresti, Rumania)

Monthly Index of East European Accessions (FEAI) IC. Vol. 7, no. 2, February 1958

FUIMOVICI, D.

Combustion of Rumanian lignites on inverse push crates.

P. 21 (Academia, Republicii, Populare Romine. Institutul de Energetica. Studii Si Ceretari de Energetica. Vol. 7, no. 1, 1957, Pucuresti, Rumania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

BUDOVICI, D.

Specific aspects of the combustion of lignites.

P. 33 (Academia Republicii Populare Romine. Institutul de Energetica. Studi Si Ceretari de Energetica. Vol. 7, no. 1, 1957, Bucuresti, Rumania)

Monthly. Index of East European Accessions (EEAI) LC. Vol.7, no. 2,
Februarv 1958

RUMANIA / Chemical Technology, Chemical Products and Their Application. Chemical Processing of Solid Fossil Fuels. H-22

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 16771

Author : Buimovici, D.; Biclesanu, D.

Inst : ~~Not given~~

Title : Grindability of Coals of the Romanian Democratic Republic.
I. Experiments with a Ball Mill

Orig Pub : Studii si cercetari energ. Acad. RPR, 1957, 7, No 3,
411-421

Abstract : With the use of a ball mill, the grindability of lignites of the RPR was investigated. The granulometric content of coals was determined experimentally during the grinding process and dependent on its duration. An empirical equation is proposed for the evaluation of the mechanical strength of coal and its behavior in grinding. -- U. Andres

Card 1/1

H-69

BUMBOVICI, D.

Thermal, thermodynamic, and exergetic efficiency of thermal-power plants.
In Russian. p.283.

REVUE D'ELECTROTECHNIQUE ET D'ENERGETIQUE. JOURNAL OF ELECTROTECHNICS AND
ENERGETICS. (Academia Republicii Populare Romane. Institutul de Energetica)
Bucuresti, Rumania
Vol. 3, no. 2, 1958.

Monthly list of Eastern European Accession Index (EPAI) LC vol. 5, No. 11
November 1959
Uncl.

BULMOVICI, D.

TECHNOLOGY

Periodicals: STUDII SI CERSETARI DE ENERGETICA. Vol. 8, no. 1, 1958

BULMOVICI, D. On the thermal balance sheets. p. 115.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

D. BUIMOVICI

TECHNOLOGY

Periodicals: STUDII SI CERCETARI DE ENERGETICA. Vol. 8, no. 1, 1958

D. BUIMOVICI; an obituary. p. 155

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

COMMITTEE	: Rumania	8-1
CATEGORY	:	
ABS. JOUR.	: RZKhim., No.22 1959 No.	79717
AUTHOR	: Muimovici, D., Bala, E., and Totirescu, G.	
INSTR.	: Not given	
TITLE	: Changes in the Bulk Density of Brown Coals as a Function of Moisture Content	
ORIG. PUB.	: Studii si Cercetari Energ. 8, No 2, 299-303 (1958)	
ABSTRACT	: The authors have investigated the correlation between the bulk density of ground coals and their moisture content as a contribution to the improvement of calculations related to the evaluation of the grindability characteristics, classification, pneumatic transport characteristics, and combustion characteristics of brown coals in fluidized beds. In their investigation the authors have used samples of a number of Rumanian coals, prepared by both increasing gradually the moisture	
CARD:	1/3	

COUNTRY	:	Romania	74017
CATEGORY	:		
ABS. JOUR.	:	RZhim., No.22 1954, No.	74017
AUTHOR	:		
INST.	:		
TITLE	:		
ORIG. PUB.	:		
ABSTRACT	:	content of the coals and by sampling the coals at different time intervals during the drying process. Analyses of the starting coal samples are given together with a formula for the determination of the bulk density and curves giving the dependence between the bulk density and the moisture content (MC) of the coals. An analysis of the latter curves shows that this dependence is linear, the slope of the curves being greater for moist coals than for dried coals. The authors also point to	
ISSN: 2/3		226	

COUNTRY:	: Rumania	B-22
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 22 1959 No.	79717
AUTHOR	:	
DATE	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT	: the presence of hysteresis, with the result that the bulk density of the coals recorded during the drying process is lower than the bulk density obtained during the gradual moistening of the coals. N. Kirichenko	

CARD: 3/3

Buimovici, Elena.

RUMANIA / Virology. Human and Animal Viruses. Polio-
myelitis Virus.

Abs Jour: Ref Zhur-Biol., No 5, 1959, 19310.

Author : Klein, R.; Horodnicescu, F.; Gorgiesco, Dina.;
Harcovici, M.; Zamfiresco, M.; Buimovici, Elena.

Inst : Not given.

Title : The Study of Poliomyelitis in Rumania in 1958.
III. On the Manifestation of the Poliomyelitis
Virus and Related Viruses in Connection with
Certain Clinical and Epidemiological Data.

Orig Pub: Arch. roumain. pathol. experim. et microbiol.,
1957, 10, No 3, 457-465.

Abstract: No abstract.

Card 1/1

5

LEONESCU, M.; BURLUI, A.; BURLUI, A.; BUIMOVICI, E.; IANCONESCU, M.; PRECEAS, L.

The study of anti-poliomyelitis antibodies after vaccination with
inactivated anti-poliomyelitis vaccine. Stud. cercet. inframicrobiol.
13 no.1:97-102 '62.

(POLIOMYELITIS immunology)

BUIMOVICI, Elena; SLOBODA, Eva; DONA, D.

Comparative sensitivity of 5 cell cultures for the isolation of
poliomyelitis viruses. Stud. cercet. inframicrobiol. 13 no.4:
463-472 '62.

(POLIOVIRUS) (VIRUS CULTIVATION) (TISSUE CULTURE)

SLOBODA, Eva; BUIMOVICI, Elena; in colaborare cu: WEISER, G.

Foci of febrile catarrh of the upper respiratory tract and conjunctivitis associated with enteroviruses. Stud. cercet. inframicrobiol. 14 no.5:603-618 '63.

(ENTEROVIRUS INFECTIONS)
(RESPIRATORY DISEASES)
(CONJUNCTIVITIS)
(COXSACKIE VIRUS INFECTIONS)
(ECHO VIRUSES) (EPIDEMIOLOGY)

BULIMOVICI, Elena; SLOBODA, Eva; DINULESCU, M.; DONA, D.

Coxsackie viruses in the Rumanian People's Republic. Some observations on 10 years of virological and epidemiological research at the "Dr.I. Cantacuzino" Institute. Stud. cercet. inframicrobiol. 15 no.5:461-472 '64.

L 35397-66 T JK
ACC NR: AP6026855

SOURCE CODE: RU/0023/66/011/002/0127/0138

AUTHOR: Sergiescu, Dina--Serdzhiyevskiy, D. (Doctor); Klein, R.--Kleyn, R. (Doctor);
Dinculescu, M.--Dinkulesku, M. (Doctor); Buimovici-Klein, Elena--Buimovich-Kleyn, Ye.
(Doctor) 3/15

ORG: [Sergiescu; Klein] Poliomyelitis Vaccine Section, "Dr. In Cantacuzino" Institute,
Bucharest (Sectia vaccin poliomielitice, Institutul "Dr. In Cantacuzino"); [Dinculescu;
Buimovici-Klein] Enterovirosis Section, "Dr. In Cantacuzino" Institute, Bucharest
(Sectia enteroviroze, Institutul "Dr. In Cantacuzino")

TITLE: Value of intra-type serum differentiating reaction in type 3 polio virus 6
identification

SOURCE: Microbiologia, parazitologia si epidemiologia, v. 11, no. 2, 1966, 127-138

TOPIC TAGS: virus disease, vaccine, antigen

ABSTRACT: The authors studied the intra-type differentiation of type 3 polio viruses by means of the Wecker test. Preparation of guinea pig and rabbit sera with the aid of various antigens showed the advantage of using rabbits immunized with concentrated virus suspensions. The method was found useful to check identity of the vaccines with the seeding virus as well as to assess the antigenic relations of strains isolated from patients with the types used for vaccination. The histopathologic examination was performed at the Laboratory for the Control of Poliomyelitis Vaccination by Doctor M. Zamfirescu. The authors thank Medical Assistants Ileana Brucker, Ana Tanasescu, C. Lazarescu and I. Georgescu for their valuable technical assistance.

Orig. art. has: 3 tables. / Based on authors' Eng. abst. / JPRS: 36,834/
SUB CODE: 06 / SUBM DATE: 19Dec64 / ORIG REF: 001 / OTH REF: 018
Card 1/1

UDC: 576.858.23.093.3

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1. Ukrainian Scientific Research Institute of Meat and Milk
Industries.

L 23163-66 EWT(m) DIAAP

ACC NR: AP6002729

SOURCE CODE: UR/0056/65/049/006/1868/1874
48
B 441

AUTHOR: Buishvili, L. L.

ORG: Institute of Cybernetics, Academy of Sciences, Georgian SSR (Institut Kibernetiki Akademii nauk Gruzinskoy SSR)

TITLE: Contribution to the quantum statistical theory of dynamic ¹⁹polarization of nuclei

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1868-1874

TOPIC TAGS: statistic analysis, quantum statistics, dipole interaction, physical diffusion, nuclear spin, Zeeman effect

ABSTRACT: The author presents a rigorous quantum statistical analysis of dynamic polarization of nuclei, with consistent account taken of both the electronic dipole-dipole reservoir and of nuclear spin diffusion. The method developed by D. N. Zubarev (DAN SSSR v. 140, 92, 1961; v. 164, No. 3, 1965) is used to construct the nonequilibrium density matrix of the system, by deriving local integrals of motion with the aid of the conservation laws, and using these integrals to construct the statistical operator. The integro-differential equations yield the nuclear Zeeman

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ACC NR: AP6002729

temperature, the electronic Zeeman temperature, and the temperature of the dipole-dipole reservoir. Some of the density equations used in the calculations were obtained by Zubarev and the author earlier (FTT v. 7, 723, 1965). Particular cases corresponding to different couplings between the nuclear spin and the dipole-dipole reservoir are considered. Author thanks D. N. Zubarev and G. R. Khutsishvili for useful advice and B. N. Protopopov and M. A. Kozhushner for discussions. Orig. art. has: 16 formulas. 4

SUB CODE: 20/ SUBM DATE: 01Jul65/ ORIG REF: 008/ OTH REF: 004

Card 2/2

L 2514-66 EWT(1) IJP(c)

ACCESSION NR: AP5014594

UR/0181/65/007/006/1871/1872

AUTHOR: Buishvili, L. L. 44.55

22
B

TITLE: Contribution to the theory of nuclear spin diffusion in ferromagnets

SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1871-1872 21.44.55

TOPIC TAGS: physical diffusion, nuclear spin, ferromagnetic

ABSTRACT: Using the results of an earlier paper (with D. N. Zubarev, FTT v. 7, 722, 1965), the author derives an expression for the coefficient of an nuclear spin diffusion in ferromagnetic materials, making use of the probability of the flip-flop transition between the nuclear spins. This expression differs by a factor $\pi/2\sqrt{2}$ from a similar expression derived by A. Portis and A. Gossard (J. Appl. Phys. Suppl. v. 31, 205, 1960) under the assumption that an indirect interaction exists between the nuclei. Orig. art. has: 5 figures.

ASSOCIATION: Institut kibernetiki AN GruzSSR, Tbilisi (Institute of Cybernetics AN GruzSSR) 44.65

SUBMITTED: 17Nov64

ENCL: 00

SUB CODE: EC, NP

NR REF SOV: 001
Card 1/1

OTHER: 003

L 9250-66 EWT(1)/EWT(m)/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/WW/GG

ACC NR: AP5022725

SOURCE CODE: UR/0181/65/007/009/2793/2798

AUTHOR: ^{44, 55} Buishvili, L. L.; ^{44, 55} Giorgadze, N. P.; ^{44, 55} Kharadze, G. A.

ORG: ^{44, 55} Institute of Cybernetics AN GruzSSR (Institut kibernetiki AN GruzSSR); ⁶⁷ Ins-
titute of Physics AN GruzSSR (Institut fiziki AN GruzSSR)

TITLE: On the theory of nuclear magnetic resonance in ferrometals

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2793-2798

TOPIC TAGS: ^{21, 44, 55} ferromagnetic material, ^{21, 44, 55} nuclear magnetic resonance, conduction electron

ABSTRACT: This paper is a theoretical investigation of problems associated with nuclear magnetic resonance in ferrometals. It is shown that the conduction electrons in these materials cause an additional indirect anisotropic interaction between a pair of nuclear spins which differs from relationships of the Suhl-Nakamura and Ruderman-Kittel type. The Hamiltonian is given for the system of interrelated electrons and nuclear spins in a semimetal and formulas are derived for calculating the various parameters appearing in this function. The results apply to a single domain of the ferrometal and do not account for transition regions (Bloch walls), which have a considerable effect on the nature of nuclear magnetic resonance in ferromagnetic materials. In conclusion, the authors are grateful to G. R. Khutsishvili and G. Ye. Gurgenishvili for extremely useful discussions. Orig. art. has: 33 formulas.

SUB CODE: 20/ SUBM DATE: 31Dec64/ ORIG REF: 003/ OTH REF: 006

Card 1/1 *dw*

L 14130-66 EWT(1) IJP(c) WW/CG

ACC NR: AP6000878

SOURCE CODE: UR/0181/65/007/012/3662/3664

AUTHORS: Buishvili, L. L.; Giorgadze, N. P.; Kharadze, G. A. 33

ORG: Physics Institute AN GruzSSR, Tbilisi (Institut fiziki AN GruzSSR)

TITLE: Acoustic resonance in magnetic materials with simple helicoidal structure

SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3662-3664

TOPIC TAGS: magnetic material, acoustic resonance, magnetic domain structure, spin resonance

152
ABSTRACT: In view of recent investigations of nuclear acoustic resonance in magnetic materials, the authors calculate the average power absorbed by a magnet with helicoidal structure under the assumption that the interaction between the nuclear spin and the spin of the magnetic shell has a contact character. The calculations show that, unlike a radio frequency field, ultrasound always senses the helicoidal structure of the magnetic system. Unlike magnetic resonance, acoustic

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ACC NR: AP6000878

resonance occurs also at doubled frequencies, owing to the fact that the magnetostriction energy is quadratic in the spin. It is shown that no account need be taken of spatial dispersion in the vicinity of nuclear resonances, and that the high frequency resonances at which spatial dispersion must be taken into account are practically unattainable for ultrasound. The frequency contraction at double the frequency is approximately 10^4 times smaller than at the fundamental frequency, and the resonance at double the frequency is much weaker than at the fundamental frequency. Orig. art. has: 3 formulas.

SUB CODE: 20/ SUBM DATE: 01Jul65/ ORIG REF: 003/ OTH REF: 003

Card

fw
2/2

L 30092-66 EWT(1) IJP(c) CG/WW

ACC NR: AP6012519

SOURCE CODE: UR/0181/66/003/004/1309/1311

AUTHORS: Buishvili, L. L.; Vatova, L. E.; Giorgadze, N. P. 63
62
B

ORG: Institute of Cybernetics, AN GruzSSR (Institute kibernetiki AN GruzSSR); Institute of Physics, AN GruzSSR, Tbilisi (Institut fiziki AN GruzSSR)

TITLE: Forbidden magnetic resonance in ferrodielectrics ^{2/}

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1309-1311

TOPIC TAGS: electron spin, electron paramagnetic resonance, nuclear spin, magnetic susceptibility, Green function, magnetodielectric

ABSTRACT: Forbidden resonance, wherein the radio frequency field (perpendicular to a constant magnetic field) acts on the spin of the electron shell of a paramagnetic atom, but tensor coupling between the spins of the electron shell and the nucleus causes simultaneous reversals of both the electron and the nuclear spins (flip-flop and flip-flip transitions), is considered in the present article for the case of ferrodielectrics in which the electron spins, unlike in paramagnets, constitute a collective system as a result of the strong exchange interaction between them. By expressing the magnetic susceptibility in terms of double-time

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L 30092-66

ACC NR:

AP6012519

Green's functions, the authors show that the first term in the susceptibility describes ordinary electronic resonance, while the second two contain forbidden resonance at frequencies $\omega = \omega_e \pm \omega_n$ (e and n stand for the electron and nuclear spins). The absorption intensity in forbidden resonance is found to be $(\omega_n/|B|)^2$ times smaller than the absorption intensity in electron resonance. Unlike in paramagnets, the intensity of absorption in the forbidden resonance is independent of the external field. In order for forbidden resonance to be observable, it is necessary that the line width be smaller than ω_n . This may be the situation in yttrium-iron-garnet. If the line width is larger than ω_n , forbidden resonance may be observable by dynamic polarization of the nuclei. The authors thank G. A. Kharadze for valuable hints and a discussion of the work. Orig. art. has: 3 formulas.

SUB CODE: 20/ SUBM DATE: 05Aug65/ ORIG REF: 003/ OTH REF: 003

Card

2/2 CC

ACC NR: AP6033551

SOURCE CODE: UR/0181/66/008/010/2919/2924

AUTHOR: Bendiashvili, N. S.; Buishvili, L. L.; Zviadadze, M. D.

ORG: Institute of Cybernetics, AN GruzSSR, Tbilisi (Institut kibernetiki AN GruzSSR)

TITLE: Contribution to the theory of dynamic polarization and relaxation of nuclei in the case of strong saturation

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2919-2924

TOPIC TAGS: nuclear polarization, spin lattice relaxation, nuclear spin, electron spin, electron spin, quantum statistics, paramagnetic relaxation, *electron polarization*

ABSTRACT: The relaxation and dynamic polarization of nuclei, resulting from paramagnetic impurities, are investigated on the basis of quantum statistics in the case when a strong radio-frequency field is applied to a system of electron spins. The interaction between the electron and nuclear spin subsystems is regarded as a small perturbation. The analysis is based on the construction of the nonequilibrium density matrix by the method developed by D. N. Zubarev (DAN SSSR v. 140, p. 2, 1961). The analysis is limited to the quasistatic case, with the dispersion of the kinetic coefficients neglected. The correlators of the spin operators are calculated. It is shown that the relaxation time increases near resonance, for then exchange of energy between the electron and nuclear systems is greatly reduced. The results indicate

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ACC NR: AP6033551

that with increasing amplitude of the radio-frequency field the degree of polarization increases (the temperature of the nuclear subsystem decreases), goes through a maximum, and then decreases. A relation is established between the spin-lattice relaxation time and the position of the maximum. Orig. art. has: 45 formulas.

SUB CODE: 20/ SUBM DATE: 14Feb66/ ORIG REF: 005/ OTH REF: 007

Card 2/2

ACC NR: AP6033573

SOURCE CODE: UR/0181/66/008/010/3075/3078

AUTHOR: Buishvili, L. L.; Vatova, L. B.

ORG: Institute of Cybernetics, AN GruzSSR, Tbilisi (Institut kibernetiki AN GruzSSR)

TITLE: Contribution to the theory of broadening of forbidden resonance

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3075-3078

TOPIC TAGS: line broadening, forbidden transition, electron spin resonance, absorption line, nuclear spin, electron polarization

ABSTRACT: The authors investigate quantitatively the change in forbidden-resonance line shape brought about by exchange interaction between electron spins. The calculations involve a determination of the absorption energy from the imaginary part of the complex susceptibility, and account is taken of the fact that the Hamiltonian assumes different values for isotropic and tensor interactions between the electrons and the nuclear spins. The second and fourth moments, are calculated. The calculations show that when the interaction is isotropic, there is no dynamic polarization of the nuclei, but the Overhauser effect can result when the exchange interaction is saturated. When the interaction has a tensor character, as is the case at low temperatures, there is dynamic polarization, but no Overhauser effect. This agrees with recent experimental data. Orig. art. has: 9 formulas.

SUB CODE: 20 / SUBM DATE: 22Jan66 / ORIG REF: 003 / OTH REF: 004

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24 (5)

AUTHOR:

Buishvili, L. L.

SOV/56-36-6-43/66

TITLE:

On the Overhauser Effect in the Saturation of a Forbidden Resonance (Ob effekte Overkhauzera pri nasyshchenii zapreshchennogo rezonansa)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 6, pp 1926 - 1927 (USSR)

ABSTRACT:

G. R. Khutsishvili (Ref 1) investigated the steady Overhauser effect in saturation in the case of a permitted transition in the paramagnetic resonance spectrum. The author of the present "Letter to the Editor" does the same for the case of a forbidden transition in the paramagnetic resonance spectrum. He investigates a system consisting of a nucleus with spin I and an electron shell with spin S , which is located in a magnetic field H . This field is assumed to be sufficiently strong, so that the energy of spin-spin interaction may be neglected, as also the Zeeman energy of the nucleus. There then exist $2I+1$ level pairs with an energy difference $g\beta H$. A figure shows a scheme of level positions (M and m are the projections of the electron- and nuclear spins respectively on H). In the case of an axially symmetric innercrystalline electric field, and if H

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On the Overhauser Effect in the Saturation of a
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is parallel to the symmetry axis (z), the selection rule $\Delta M = -\Delta m = +1$ holds, and for other H-directions it holds that $\Delta M = \Delta m = +1$. For the following investigations it is assumed that only the transitions $\Delta M = +1$ and $\Delta m = 0$ (vertical relaxation) and $\Delta M = -\Delta m = +1$ (hyperfine interaction) take place. For the case of the forbidden resonance $\mu \rightarrow \mu - 1$ formulas characterizing the parameter of saturation resonance $s(\mu)$ and the parameters characterizing the degree of nuclear orientation are derived. The author finally thanks G. R. Khutsishvili for his assistance. There are 1 figure and 2 references, 1 of which is Soviet.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: December 30, 1958

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82983

S/181/60/002/008/002/045
B006/B070

24.7900

AUTHORS: Buishvili, L. L., Khutsishvili, G. R.

TITLE: Forbidden Paramagnetic Resonance

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 8, pp. 1685-1688

TEXT: The purpose of the present work is to calculate the energy and the probability of forbidden paramagnetic resonance transitions in paramagnetic salts and semiconductors with donor or acceptor impurities. A study of paramagnetic resonance leads to data on the state of magnetic particles and their environment. Besides the usual allowed paramagnetic resonance, forbidden paramagnetic resonance is also possible, and its spectrum is investigated in the present work. In Ref. 3, similar problems were investigated, but only for weak fields and without obtaining the expressions for the transition probability. Here the authors consider a system consisting of a paramagnetic ion with effective shell spin $S = 1/2$ which has a nucleus of spin I . (For example, a system consisting of the nucleus of a pentavalent donor atom with an electron in its neighborhood,

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Forbidden Paramagnetic Resonance

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B006/B070

or a trivalent nucleus of an acceptor atom with a hole in its neighborhood). The inner crystalline field is assumed to be axially symmetric, and the external field to be oriented parallel to this. Starting from the spin Hamiltonian obtained in Ref. 4, an expression for the energy levels is obtained in the second approximation for $|B| \ll g_{\parallel} \beta H$. For $I = 3/2$ the eigenfunctions of 8 stationary states are given, and the corresponding 8 levels sketched for $A > 0$. Then an expression for the transition probability as function of $|L_{ki}|^2$ is obtained, and the L_{ki} (the matrix elements of the operator L defined by (5)) are investigated. The sets of equations (8) and (9) are obtained for the matrix elements for the different possible transitions in the system considered. These equations give again the L_{ki} as explicit functions of A , B , H , $g_{\parallel}$, $g_{\perp}$, and β . There are 1 figure and 5 references: 1 Soviet, 2 British, and 2 US.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: May 18, 1959

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